



## Recent Advances in Metals Removal/Recovery from Industrial Wastes

Guest Editor:

**Prof. Dr. Jei-Pil Wang**

Department of Metallurgical  
Engineering, School of  
Engineering, Pukyong National  
University, Busan 48513, Korea

Deadline for manuscript  
submissions:

**closed (10 May 2023)**

### Message from the Guest Editor

Heavy metals are raw materials employed in numerous industrial processes. Their demand in the modern world is increasing exponentially owing to their extensive use in electronics and other manufactured products. However, heavy metals are one of the major pollutants in the industrial waste waters. Therefore, metal removal from wastewater and metal recovery from readily available products are important and timely concern. Various methods have been developed to achieve heavy metal removal from wastewater, such as ion exchange, reverse osmosis, chemical precipitation, solvent extraction, and membrane processes. However, these methods are expensive, tedious, and cause secondary pollution, which limits their industrial application. Many scientific studies have been conducted for the recovery of metals from wastes including sludges, slags, fly ashes, shales, spent catalysts, and spent liquors; industrial-scale treatments units have also been developed recently.

We kindly invite researchers worldwide to showcase their research results (in forms of research article, reviews, and comments) on this topic.





an Open Access Journal by MDPI

## Editor-in-Chief

### Prof. Dr. Maryam Tabrizian

1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada

2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

## Message from the Editor-in-Chief

*Materials* (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

## Author Benefits

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Ei Compendex, CaPlus / SciFinder, Inspec, Astrophysics Data System, and other databases.

**Journal Rank:** JCR - Q1 (Metallurgy and Metallurgical Engineering) / CiteScore - Q2 (*Condensed Matter Physics*)

## Contact Us

*Materials* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/materials](http://mdpi.com/journal/materials)  
[materials@mdpi.com](mailto:materials@mdpi.com)  
[X@Materials\\_Mdpi](https://twitter.com/Materials_Mdpi)